

CLAIM AMENDMENTS:

Claim 1 (Currently Amended): A condenser₁ comprising:

a condensing tube including a refrigerant inlet formed at one end thereof, a refrigerant outlet formed at another ~~the other~~ end thereof, and a passage pipe having a heat radiation protrusion formed on an outer circumference thereof, the heat radiation protrusion comprising a plurality of pyramid-shaped heat radiation protrusions; and

a cooling plate having a groove on which the condensing tube is mounted so as to prevent a separation of the condensing tube, and a plurality of bent pieces formed protruding from left and right sides of the groove;

wherein the plurality of heat radiation protrusions are not formed on a part of the outer circumference of the condensing tube mounted on the groove that face-contacts the cooling plate.

Claim 2 (Canceled).

Claim 3 (Currently Amended): ~~The~~A condenser, comprising:

a condensing tube including a refrigerant inlet formed at one end thereof, a refrigerant outlet formed at another end thereof, and a passage pipe having a heat radiation protrusion formed on an outer circumference thereof, the heat radiation protrusion comprising a plurality of heat radiation protrusions protruded in a serration shape where a triangle protrusion is attached on the outer circumference of the cooling tube; and

a cooling plate having a groove on which the condensing tube is mounted so as to prevent a separation of the condensing tube, and a plurality of bent pieces formed protruding from left and right sides of the groove;

~~of claim 1, wherein the heat radiation protrusion comprises a plurality of second heat radiation protrusions protruded in a serration shape where a triangle protrusion is attached on the outer circumference of the cooling tube,~~

wherein the plurality of second heat radiation protrusions are being not formed on a part of the outer circumference of the condensing tube mounted on the groove and that face-contactsing the cooling plate.

Claim 4 (Currently Amended): ~~The~~A condenser, comprising:

a condensing tube including a refrigerant inlet formed at one end thereof, a refrigerant outlet formed at another end thereof, and a passage pipe having a heat radiation protrusion formed on an outer circumference thereof, the heat radiation protrusion comprising a plurality of heat radiation wings each having an apex portion and a space defined between the apex portions; and

a cooling plate having a groove on which the condensing tube is mounted so as to prevent a separation of the condensing tube, and a plurality of bent pieces formed protruding from left and right sides of the groove;

~~of claim 1, wherein the heat radiation protrusion comprises a plurality of heat radiation wings each having an apex portion and a space defined between the apex portions, wherein the plurality of heat radiation wings are being not~~

formed on a part of the outer circumference of the condensing tube mounted on the groove ~~that~~ and face-contactsing the cooling plate.

Claim 5 (Original): The condenser of claim 1, wherein the cooling plate has a bent portion bent in a groove shape having a predetermined depth, and a vent part including a plurality of vent holes defined at a side portion of the bent part, for circulating external air.

Claim 6 (Currently Amended): The condenser of claim 5, wherein the vent part comprises a first vent part having a plurality of depressed portions and a second vent part having a plurality of protruded portions.

Claim 7 (Original): The condenser of claim 1, wherein the cooling plate has a rectangle shaped through hole defined between a plurality of grooves.

Claim 8 (Currently Amended): A condenser comprising:
 a condensing tube constructed from ~~in~~ a passage pipe having ~~including~~ a refrigerant inlet formed at one end thereof and a refrigerant outlet formed at another the other end thereof, the condensing tube comprising a plurality of heat radiation protrusions formed on an outer circumference thereof; and

a cooling plate having a groove on which the condensing tube is mounted so as to prevent a separation of the condensing tube, and a plurality of bent pieces formed protruding from left and right sides of the groove, the cooling plate

being bent in a multi-layer structure of a three dimension to increase an area ratio per unit volume;

wherein the plurality of heat radiation protrusions are not formed on a part of the outer circumference of the condensing tube mounted on the groove that face-contacts the cooling plate.

Claim 9 (Canceled).

Claim 10 (Currently Amended): The condenser of claim 8, wherein the cooling plate is bent in a hexahedron, three-dimensional ~~shape of a three dimension.~~